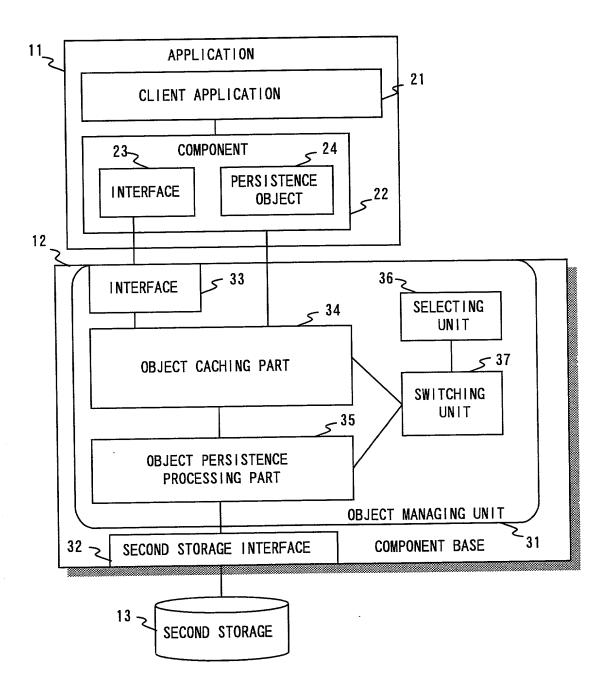
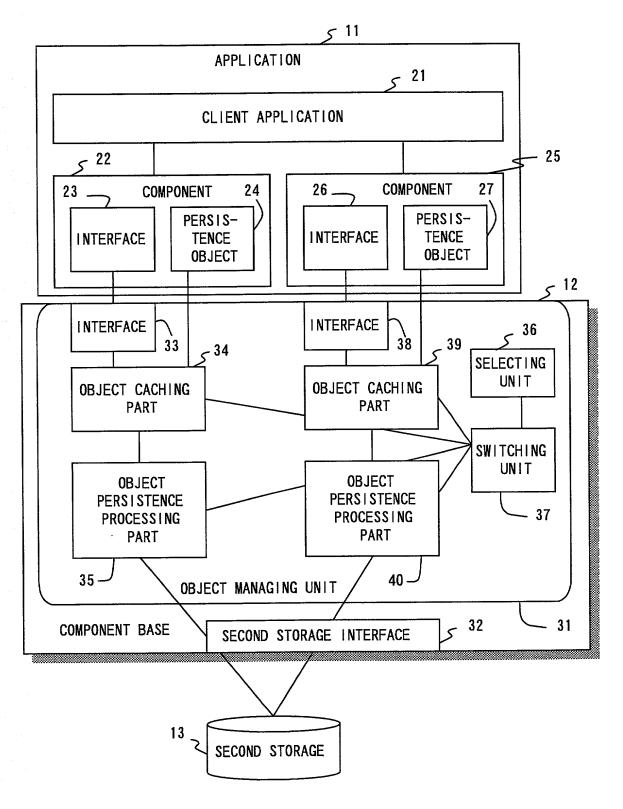


FIG. 1



F I G. 2

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F | G. 3

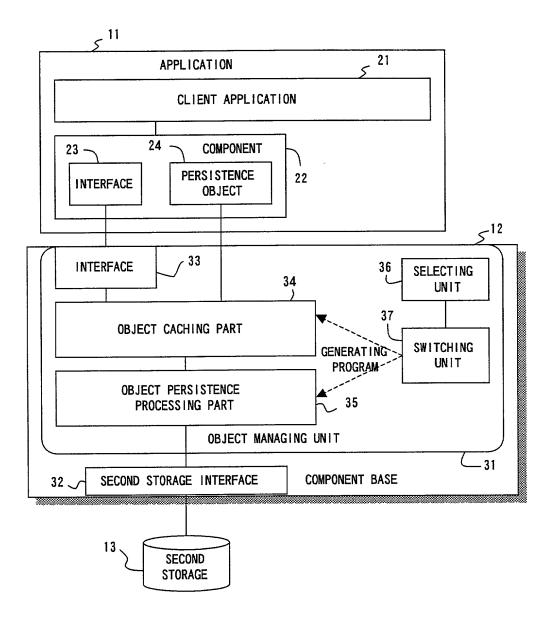


FIG. 4

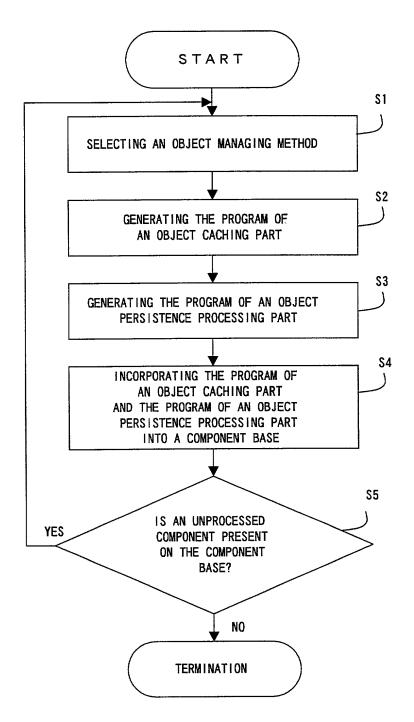


FIG. 5

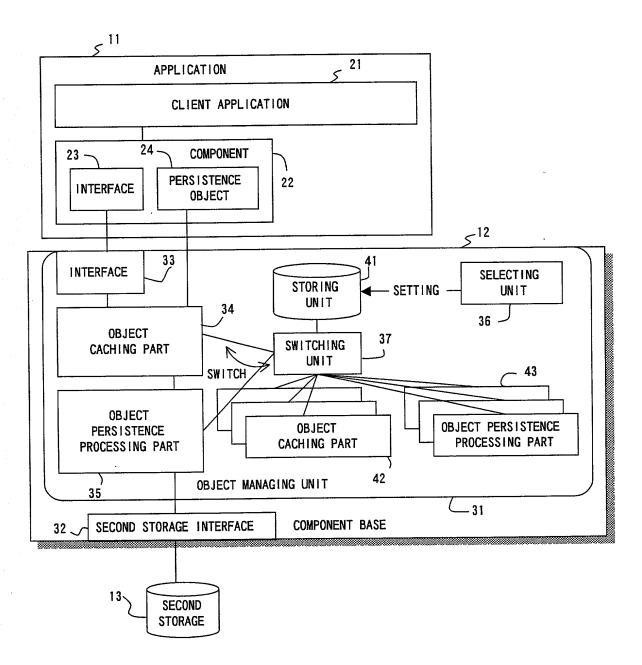


FIG. 6

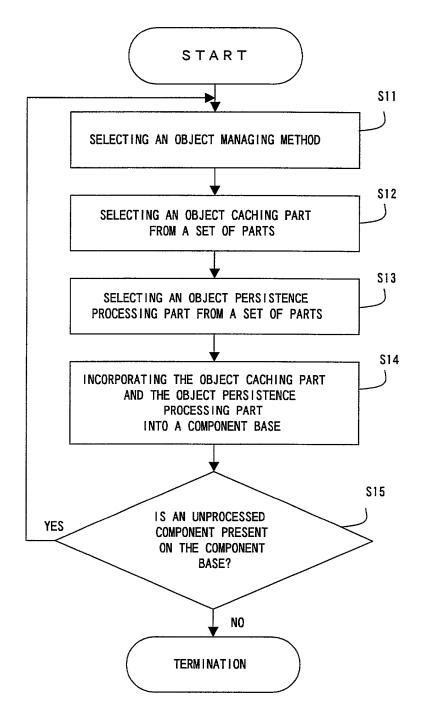


FIG. 7

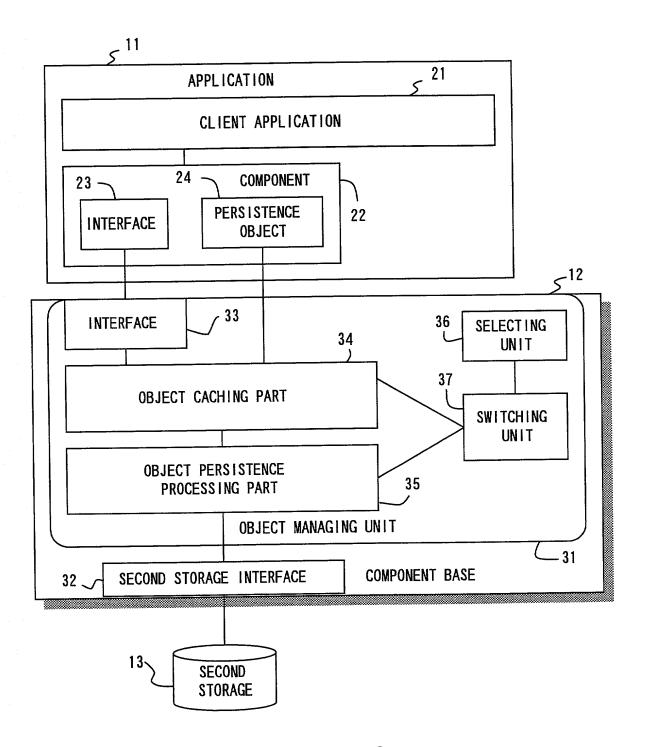


FIG. 8

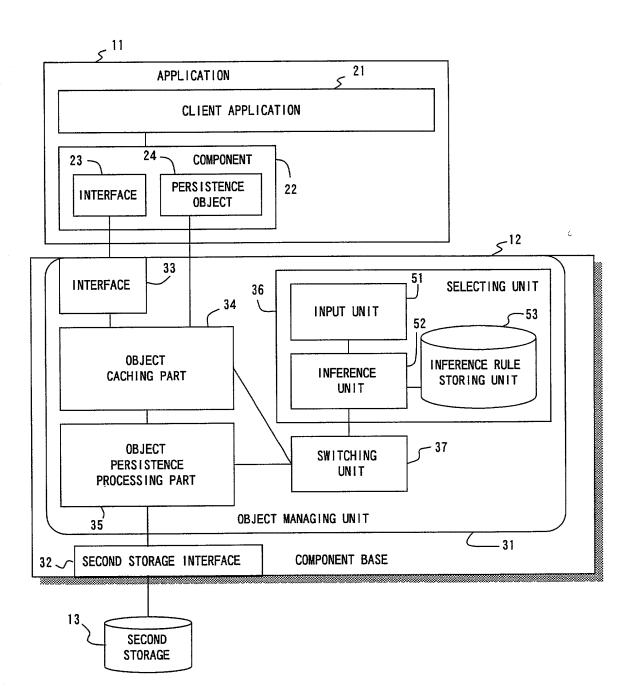


FIG. 9

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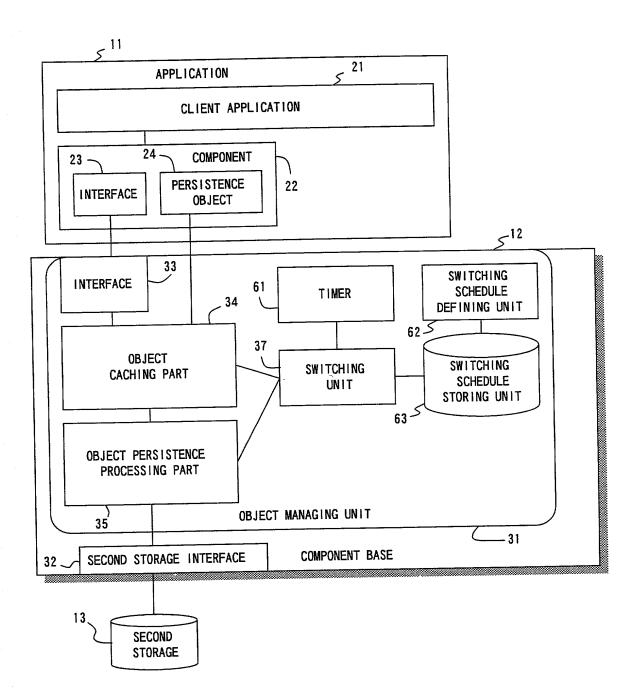


FIG. 10

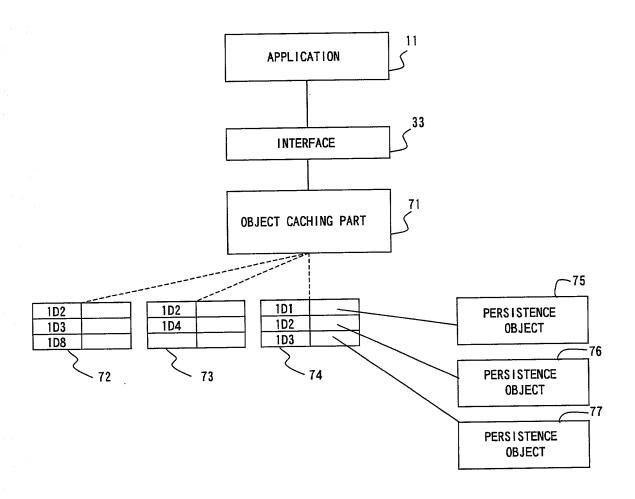


FIG. 11

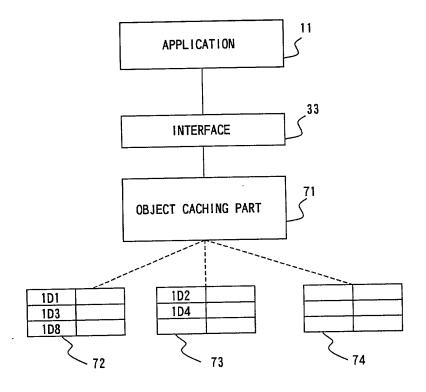


FIG. 12

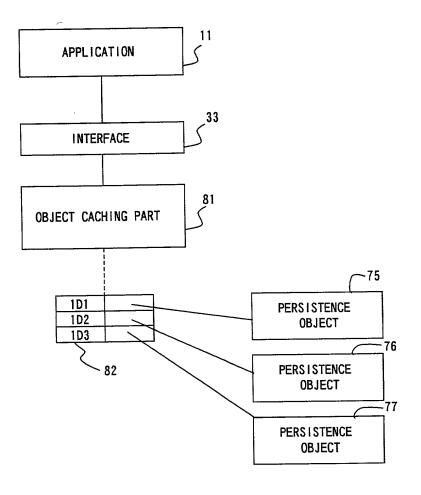


FIG. 13

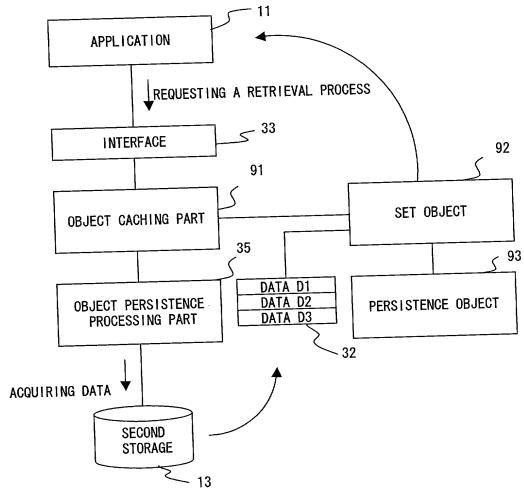


FIG. 14

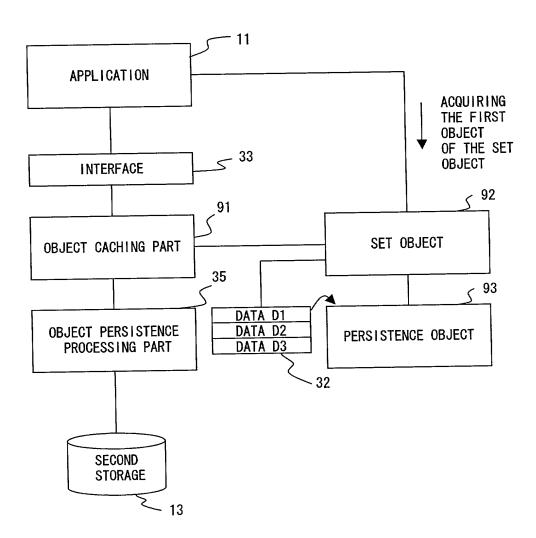


FIG. 15

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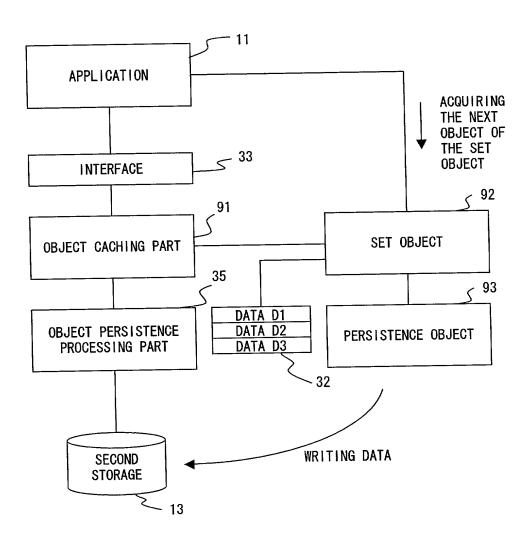


FIG. 16

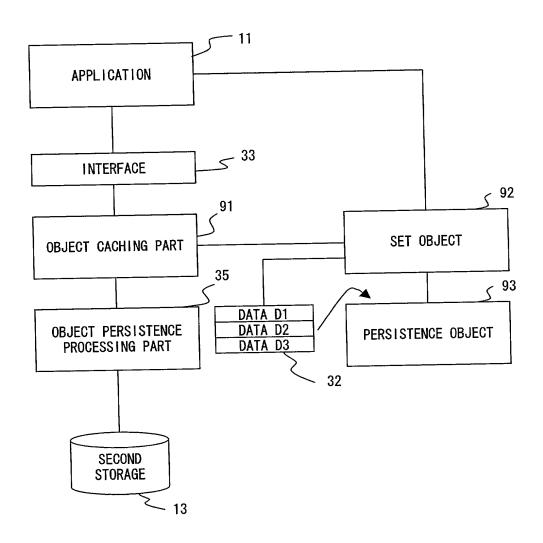


FIG. 17

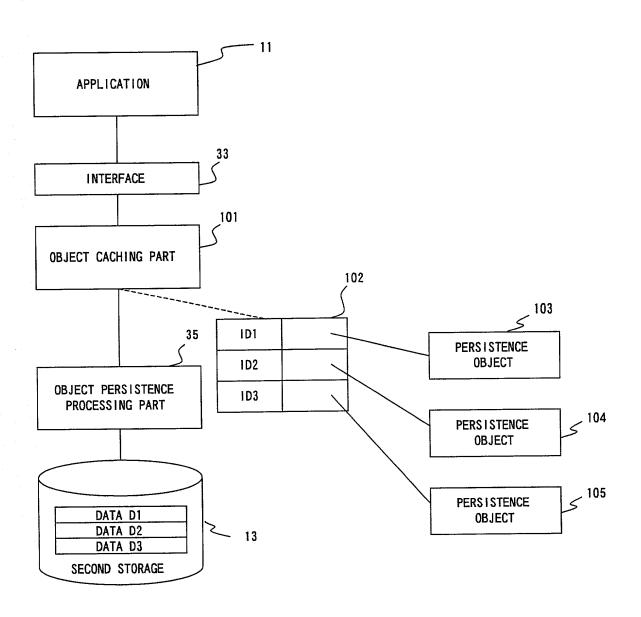


FIG. 18

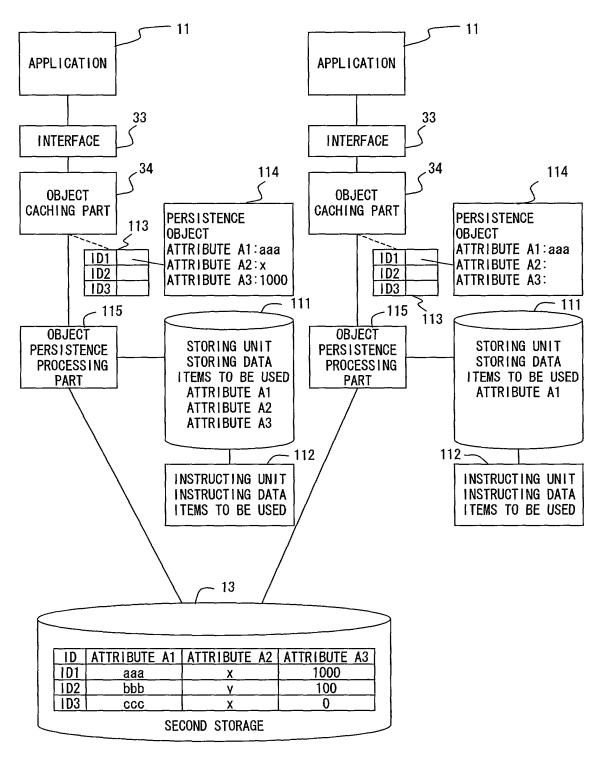


FIG. 19

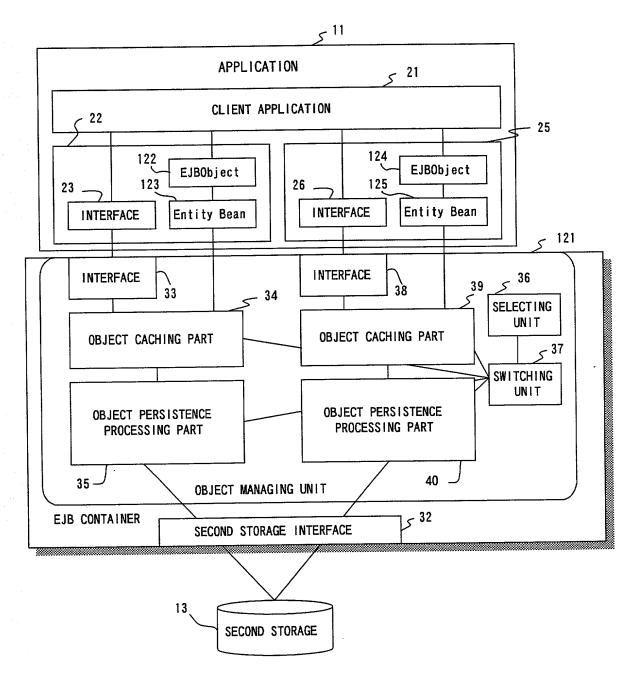


FIG. 20

```
String transactionID = getTransactionID0;
Hashtable cacheTable = (Hashtable)cacheTableHash.get(transactionID);
$$Bean$$ bean = cacheTable.get(pk);
                                                                                                                                  §$Bean$$ findByPrimaryKey($$PrimaryKey$$ pk)
                                                                                                                                                                                                                                                                                                                                                      bean = objPersistence.findBean(pk);
cacheTable.put(pk,bean);
return bean;
                                                Hashtable cacheTableHash;
$$Bean$$Persistence objPersistence;
                                                                                                                                                                                                                                                                                                     if (bean != null) return bean;
public class $$Bean$$Cache
```

F1G. 2.

```
Connection connection = getConnection();
String sql = "SELECT $$BeanFieldColumns$$ FROM $$Table$$ WHERE $$PKFieldColumns$$ = ?";
                                                                                                                                                                                                                                                         Statement statement = connection.preparedStatement(sql);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          bean.$$Name$$ = rs.get$$Type$$($$Count$$);
//$$ end foreach
                                                                                                                                                                                                                                                                                                                          statement.set$$Type$$($$Count$$,pk.$$Name$$);
//$$ end foreach
                                                                                                                                                                                                                                                                                                                                                                                                                   ResultSet rs = statement.executeQuery(); while(rs.next())
                                                                                                    $$Bean$$ findBean($$PrimaryKey$$ pk)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bean = new $$Bean$$0;
//$$ foreach $$BeanFields$$
                                                                                                                                                                                                                                                                                                             //$$ foreach $$PKFields$$
public class $$Bean$$Persistence
                                                                                                                                                           $$Bean$$ bean = null;
                                                     DataSource dataSource;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return bean;
```

F1G. 22

```
String transactionID = getTransactionID0; Hashtable cacheTable = (Hashtable)cacheTableHash.get(transactionID); OrderBean bean = cacheTable.get(pk);
                                                                                                                                                        OrderBean findByPrimaryKey(OrderBeanPrimaryKey pk)
                                                                                                                                                                                                                                                                                                                                                                                                            bean = objPersistence.findBean(pk);
cacheTable.put(pk,bean);
return bean;
                                                             Hashtable cacheTableHash:
OrderBeanPersistence objPersistence;
                                                                                                                                                                                                                                                                                                                                                 if (bean != null) return bean;
public class OrderBeanCache
```

F1 G. 23

```
public class OrderBeanPersistence
    DataSource dataSource;
    OrderBean findBean(OrderBeanPrimaryKey pk)
        OrderBean bean = null;
        Connection connection = getConnection();
        String sql = "SELECT ID, PRODUCT, QUANTITY FROM ORDERTABLE
        Statement statement = connection.preparedStatement(sql);
        statement.setString(1,pk.id);
        statement.setString(2,pk.product);
        statement.setInt(3,pk.quantity);
        ResultSet rs = statement.executeQuery0;
        while(rs.next())
            bean = new OrderBean();
            bean.id = rs.getString(1);
            bean.product = rs.getString(2);
            bean.quantity = rs.getInt(3);
        return bean;
    }
}
```

FIG. 24

```
String transactionID = getTransactionID();
Hashtable cacheTable = (Hashtable)cacheTableHash.get(transactionID);
Object bean = cacheTable.get(pk);
                                                                                                                                                                                                                                                                                                                                                                                                                                                       bean = objPersistence.findBean(pk,beanDef,"findByPrimaryKey");
                                                                                                                                                                       Object findByPrimaryKey(Object pk, BeanDef beanDef)
public class ObjectCacheOption1 extends ObjectCache
                                                                                                     ObjectPersistence objPersistence;
                                                                                                                                                                                                                                                                                                                                                                                   if (bean != null) return bean;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cacheTable.put(pk,bean);
                                                                  Hashtable cacheTableHash;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return bean;
```

F1G. 25

```
public class ObjectPersistenceOption1 extends ObjectPersistence
    DataSource dataSource;
    Object findBean(Object pk, BeanDef beanDef, String finderName)
        Object bean = null;
        Connection connection = getConnection();
        String sql = beanDef.getSQL(finderName);
        Statement statement = connection.preparedStatement(sql);
        Enumeration fields = beanDef.getFields();
        while (fields.hasMoreElements())
            FieldDef field = (FieldDef)fields.nextElement();
            setValue(statement,field);
            ResultSet rs = statement.executeQuery();
            while(rs.next())
                bean = beanDef.newInstance();
                fields = beanDef.getFields();
                while (fields.hasMoreElements())
                     FieldDef field = (FieldDef)fields.nextElement();
                     setValue(bean,rs,field);
        }
        return bean;
   }
   void setValue(Object bean, ResultSet, FieldDef field)
        Field f = field.getField();
        switch (field.fieldType)
            case FT_INT:
                f.setInt(bean,rs.getInt(field.getColumn()));
                break;
            case FT_LONG:
                f.setLong(bean,rs.getLong(field.getColumn()));
                break;
        }
   }
```

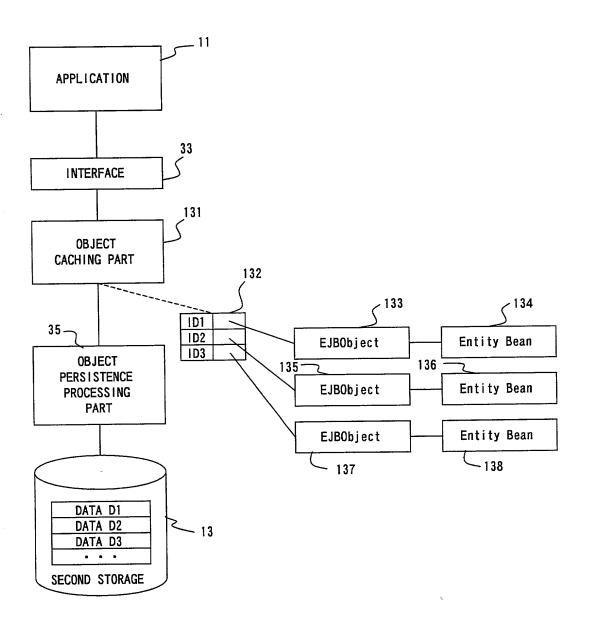


FIG. 27

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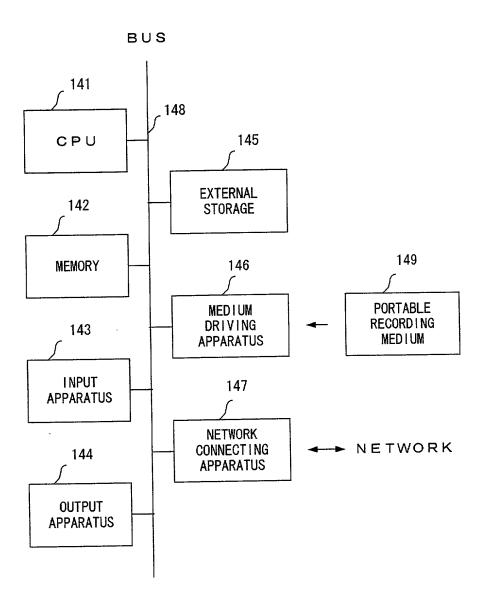


FIG. 28

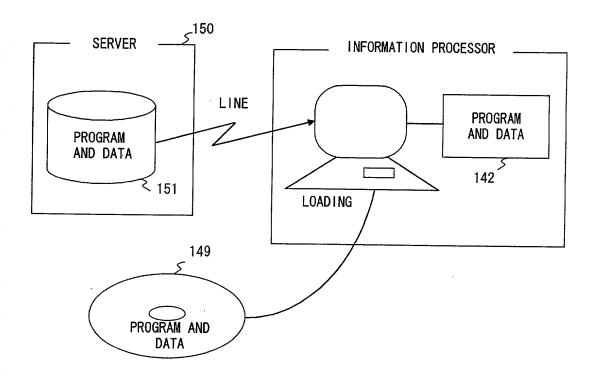


FIG. 29